

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 3349 - L2 Version 001  
Chandra X-Ray Center

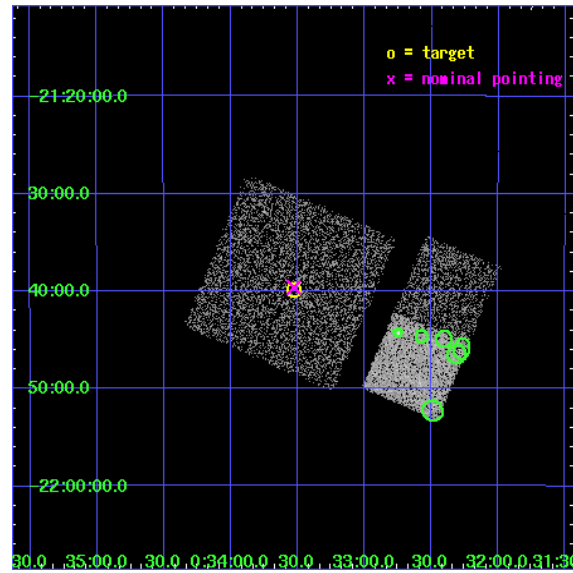
L2 Processing Date : Sep 21 2006

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# 1 Front

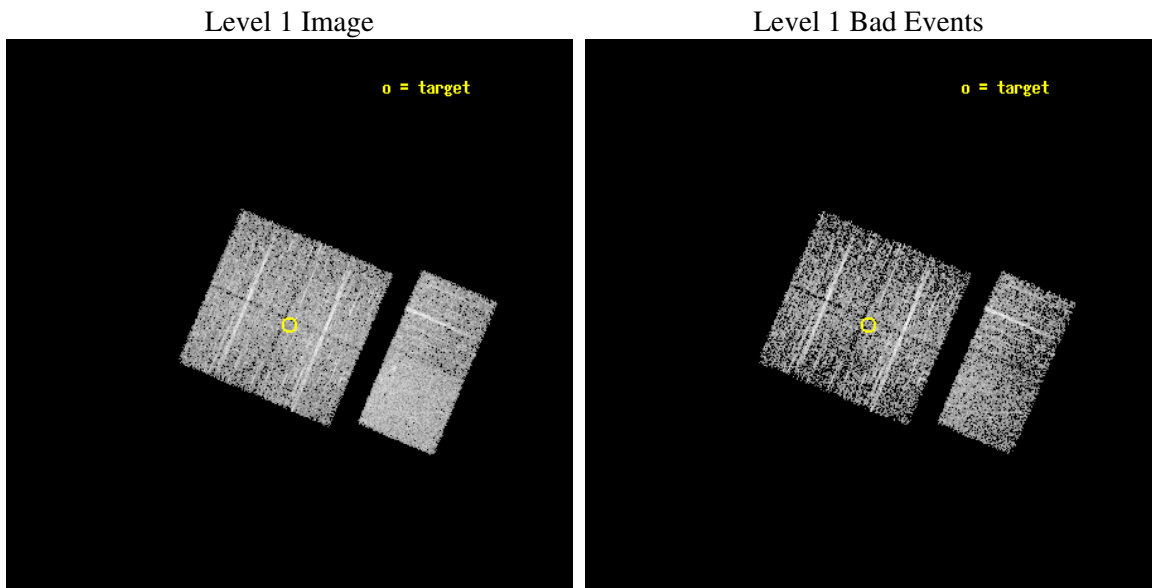
|          |                                                                      |
|----------|----------------------------------------------------------------------|
| seq_num  | 900188                                                               |
| obs_id   | 3349                                                                 |
| title    | CHANDRA OBSERVATIONS OF OPTICALLY FAINT SOURCES DISCOVERED WITH ASCA |
| observer | Dr Yoshihiro Ueda                                                    |
| object   | 1AXG J003331-2139                                                    |
| dtcycle  | 0                                                                    |
| cycle    | P                                                                    |
| ra_targ  | 8.382083                                                             |
| dec_targ | -21.665111                                                           |
| ra_nom   | 8.3819416577623                                                      |
| dec_nom  | -21.660624180722                                                     |
| roll_nom | 113.11826829735                                                      |
| revision | 2                                                                    |
| ontime   | 2959.9999889731                                                      |
| livetime | 2922.5186868147                                                      |
| ontime0  | 2959.9999889731                                                      |
| ontime1  | 2959.9999889731                                                      |
| ontime2  | 2959.9999889731                                                      |
| ontime3  | 2959.9999889731                                                      |
| ontime6  | 2959.9999889731                                                      |
| ontime7  | 2959.9999889731                                                      |
| l2events | 19271                                                                |



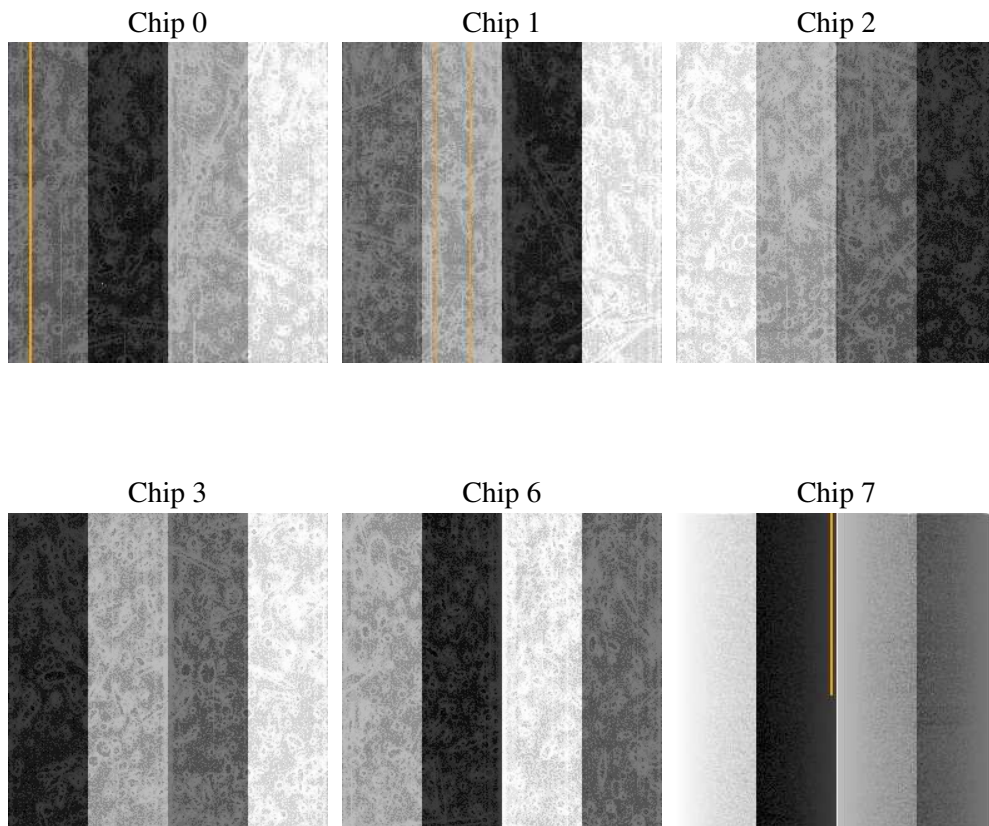
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

|          |                     |
|----------|---------------------|
| obi_num  | 0                   |
| ascdsver | 7.6.9               |
| caldsver | 3.2.3               |
| date     | 2006-09-21T03:29:23 |
| revision | 2                   |

|                |                 |
|----------------|-----------------|
| sched_exp_time | 3000.000000     |
| ontime         | 2965.5146817565 |
| ontime0        | 2968.7557018697 |
| ontime1        | 2968.7557018697 |
| ontime2        | 2965.5146817565 |
| ontime3        | 2965.5146817565 |
| ontime6        | 2965.5146817565 |
| ontime7        | 2965.5146817565 |
| l1events       | 120490          |

### 2.1.4 Events

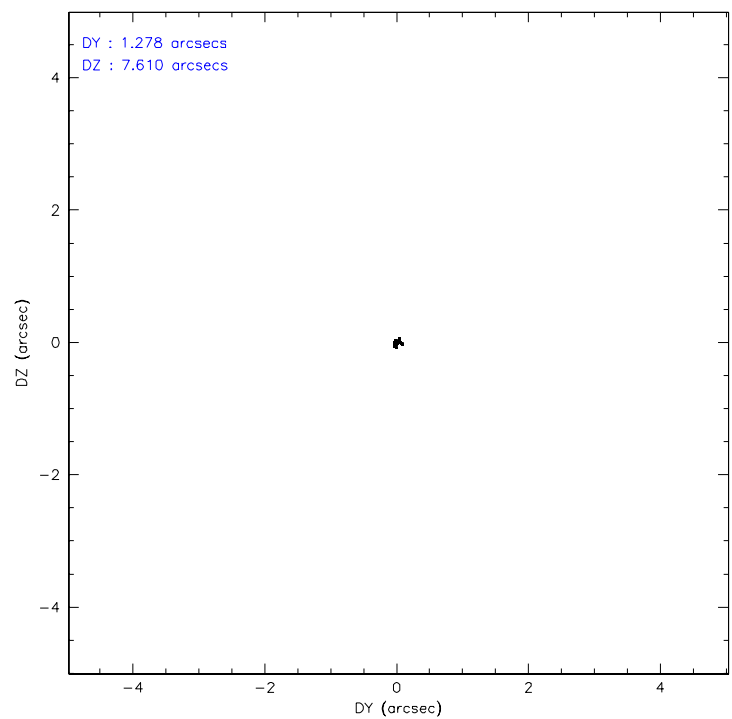
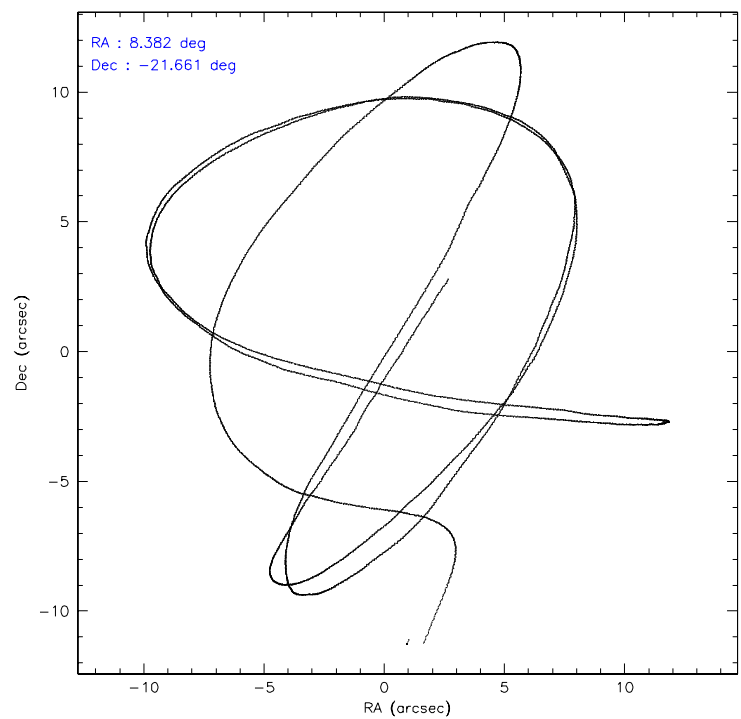
|                 | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|-----------------|-------|-------|-------|-------|-------|-------|
| level 1 events  | 17801 | 18154 | 20112 | 19077 | 19581 | 25765 |
| rejected events | 15492 | 15850 | 17850 | 16901 | 17319 | 15985 |
| rejected %      | 87%   | 87%   | 88%   | 88%   | 88%   | 62%   |

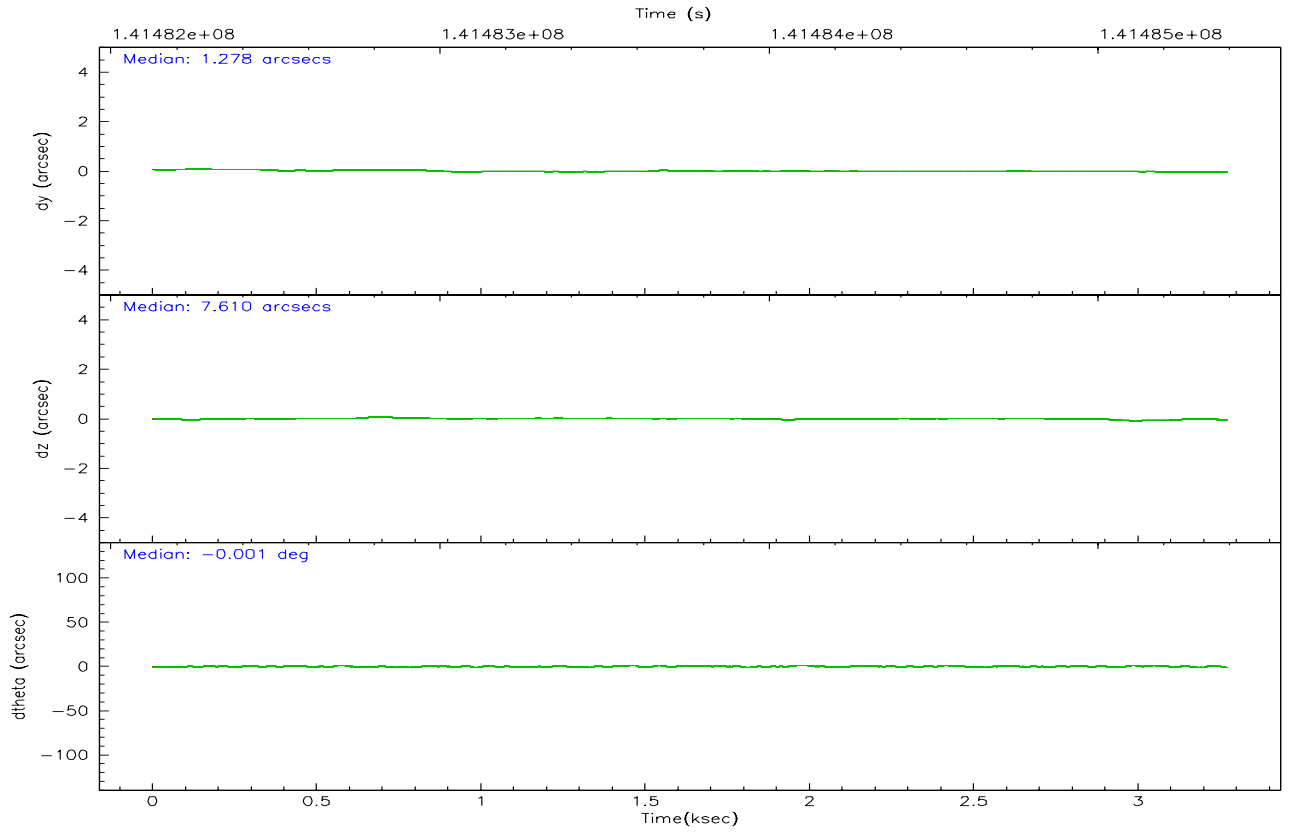
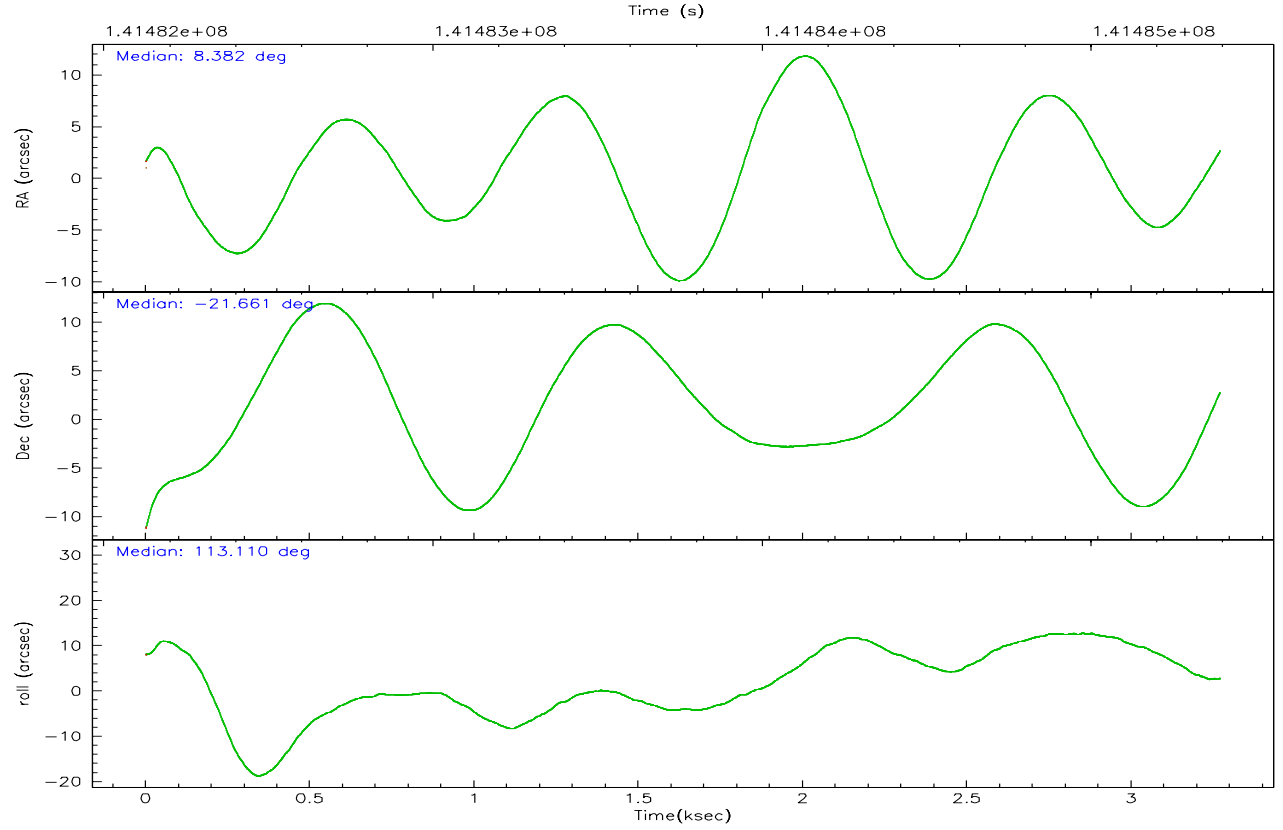
|                | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|----------------|-------|-------|-------|-------|-------|-------|
| grade 0 events | 1000  | 896   | 966   | 963   | 911   | 578   |
|                | 5%    | 4%    | 4%    | 5%    | 4%    | 2%    |
| grade 1 events | 6     | 9     | 16    | 6     | 11    | 17    |
|                | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    |
| grade 2 events | 461   | 471   | 468   | 439   | 454   | 2371  |
|                | 2%    | 2%    | 2%    | 2%    | 2%    | 9%    |
| grade 3 events | 222   | 240   | 222   | 212   | 224   | 486   |
|                | 1%    | 1%    | 1%    | 1%    | 1%    | 1%    |
| grade 4 events | 229   | 251   | 211   | 219   | 232   | 500   |
|                | 1%    | 1%    | 1%    | 1%    | 1%    | 1%    |
| grade 5 events | 713   | 791   | 707   | 764   | 895   | 1635  |
|                | 4%    | 4%    | 3%    | 4%    | 4%    | 6%    |
| grade 6 events | 400   | 453   | 402   | 347   | 448   | 5866  |
|                | 2%    | 2%    | 1%    | 1%    | 2%    | 22%   |
| grade 7 events | 14770 | 15043 | 17120 | 16127 | 16406 | 14312 |
|                | 82%   | 82%   | 85%   | 84%   | 83%   | 55%   |

## 2.2 Compared Parameters

| Parameter                         | Planned             | Actual                | Parameter                             | Planned   | Actual  |
|-----------------------------------|---------------------|-----------------------|---------------------------------------|-----------|---------|
| Instrument                        | ACIS                | ACIS                  | Obspar format version number          | 6         | 6       |
| Detector                          | ACIS-012367         | ACIS-012367           | Obspar file type                      | PREDICTED | ACTUAL  |
| Grating                           | NONE                | NONE                  | Obspar update status                  | NONE      | UPDATED |
| Data mode                         | FAINT               | FAINT                 | Number of optional ACIS chips dropped | 0         | 0       |
| Observation mode                  | POINTING            | POINTING              | On-chip summing requested             | N         | N       |
| Pointing RA                       | 8.405707            | 8.38194165776234      | Subarray requested                    | NONE      | NONE    |
| Pointing Dec                      | -21.676813          | -21.66062418072183    | Alternating exposures requested       | N         | N       |
| Pointing Roll                     | 112.918335          | 113.1182682973549     | Primary exposure time                 | 0.000000  | 3.2     |
| SIM focus pos (mm)                | -0.782348           | -0.7809083437167272   |                                       |           |         |
| SIM defocus (mm)                  | 0                   | 0.001439871863259334  |                                       |           |         |
| SIM translation stage pos (mm)    | -233.592463         | -233.5874344608287    |                                       |           |         |
| SIM translation stage offset (mm) | 0                   | -0.005018542100998502 |                                       |           |         |
| Observation start time            | 141482400.184000    | 141481385.50559       |                                       |           |         |
| Observation start date            | 2002-06-26T12:38:56 | 2002-06-26T12:23:05   |                                       |           |         |
| Observation end time              | 141485400.184000    | 141486132.28078       |                                       |           |         |
| Observation end date              | 2002-06-26T13:28:56 | 2002-06-26T13:42:12   |                                       |           |         |
| Read mode                         | TIMED               | TIMED                 |                                       |           |         |

## 2.3 Aspect





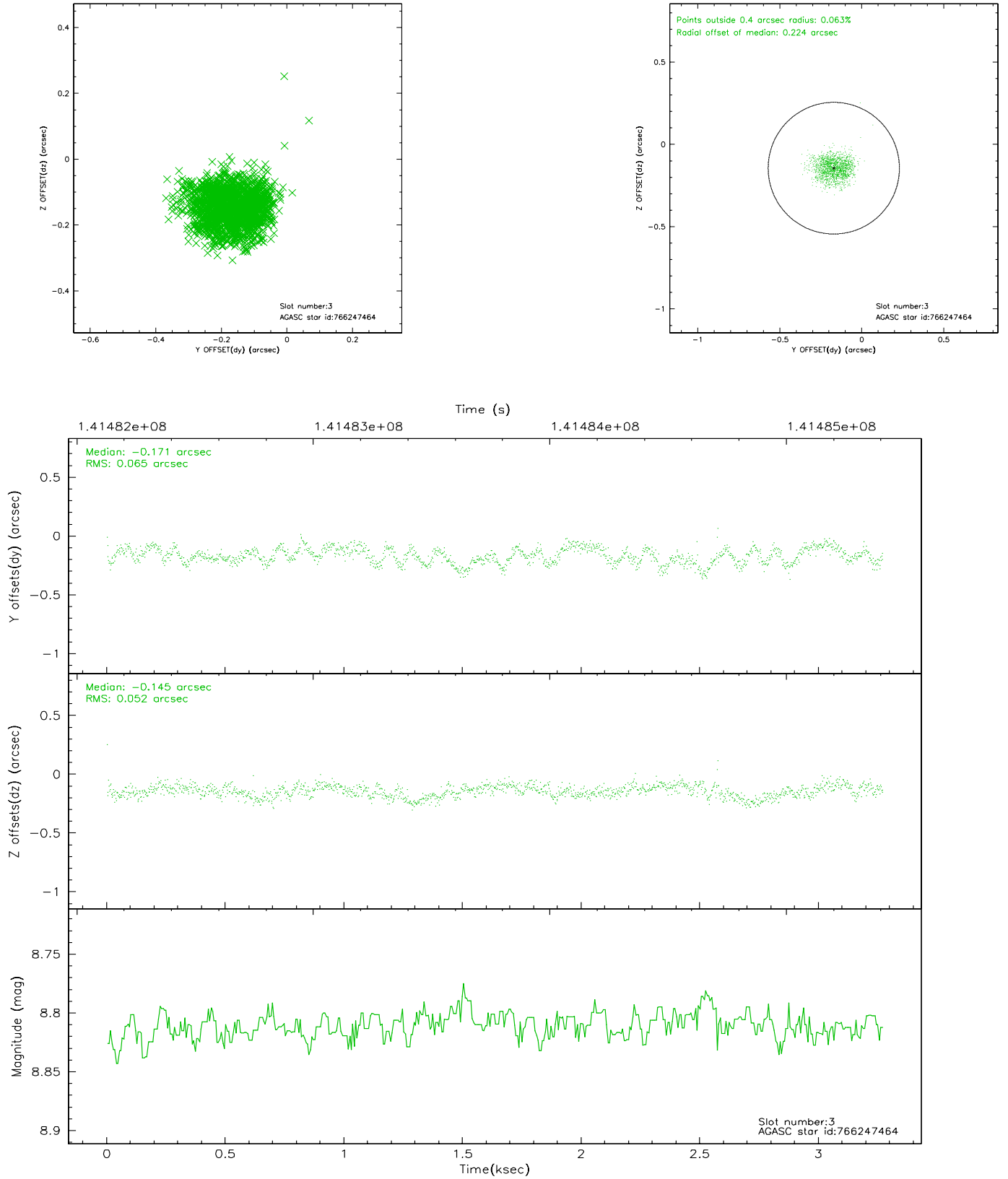
### Slot Statistics

| slot | status | id        | mag   | n_pts | med_dy | med_dz | dr1   | dr2   | ra       | dec        | mean_y   | mean_z   |
|------|--------|-----------|-------|-------|--------|--------|-------|-------|----------|------------|----------|----------|
| 0    | FID    | ACIS-I-1  | 7.24  | 798   | -0.029 | 0.067  | 0.006 | 0.009 | 0.000000 | 0.000000   | 938.51   | -830.97  |
| 1    | FID    | ACIS-I-5  | 7.23  | 798   | -0.029 | 0.037  | 0.006 | 0.011 | 0.000000 | 0.000000   | -1808.48 | 1065.58  |
| 2    | FID    | ACIS-I-6  | 7.27  | 798   | -0.033 | -0.034 | 0.006 | 0.011 | 0.000000 | 0.000000   | 402.00   | 1712.17  |
| 3    | GUIDE  | 766247464 | 8.81  | 1596  | -0.171 | -0.145 | 0.090 | 0.138 | 7.543909 | -21.461903 | 1830.80  | 2361.71  |
| 4    | GUIDE  | 766249880 | 8.63  | 1595  | -0.186 | -0.059 | 0.072 | 0.111 | 7.800027 | -21.351238 | 1869.00  | 1417.70  |
| 5    | GUIDE  | 766642920 | 8.77  | 1595  | -0.001 | 0.002  | 0.083 | 0.138 | 8.852128 | -21.744414 | -804.56  | -1278.11 |
| 6    | GUIDE  | 766643376 | 9.86  | 1592  | 0.242  | -0.123 | 0.163 | 0.269 | 8.183317 | -22.441464 | -2246.88 | 1753.03  |
| 7    | GUIDE  | 766641840 | 10.23 | 1559  | 0.114  | 0.329  | 0.121 | 0.208 | 9.061753 | -21.741455 | -1072.57 | -1926.29 |

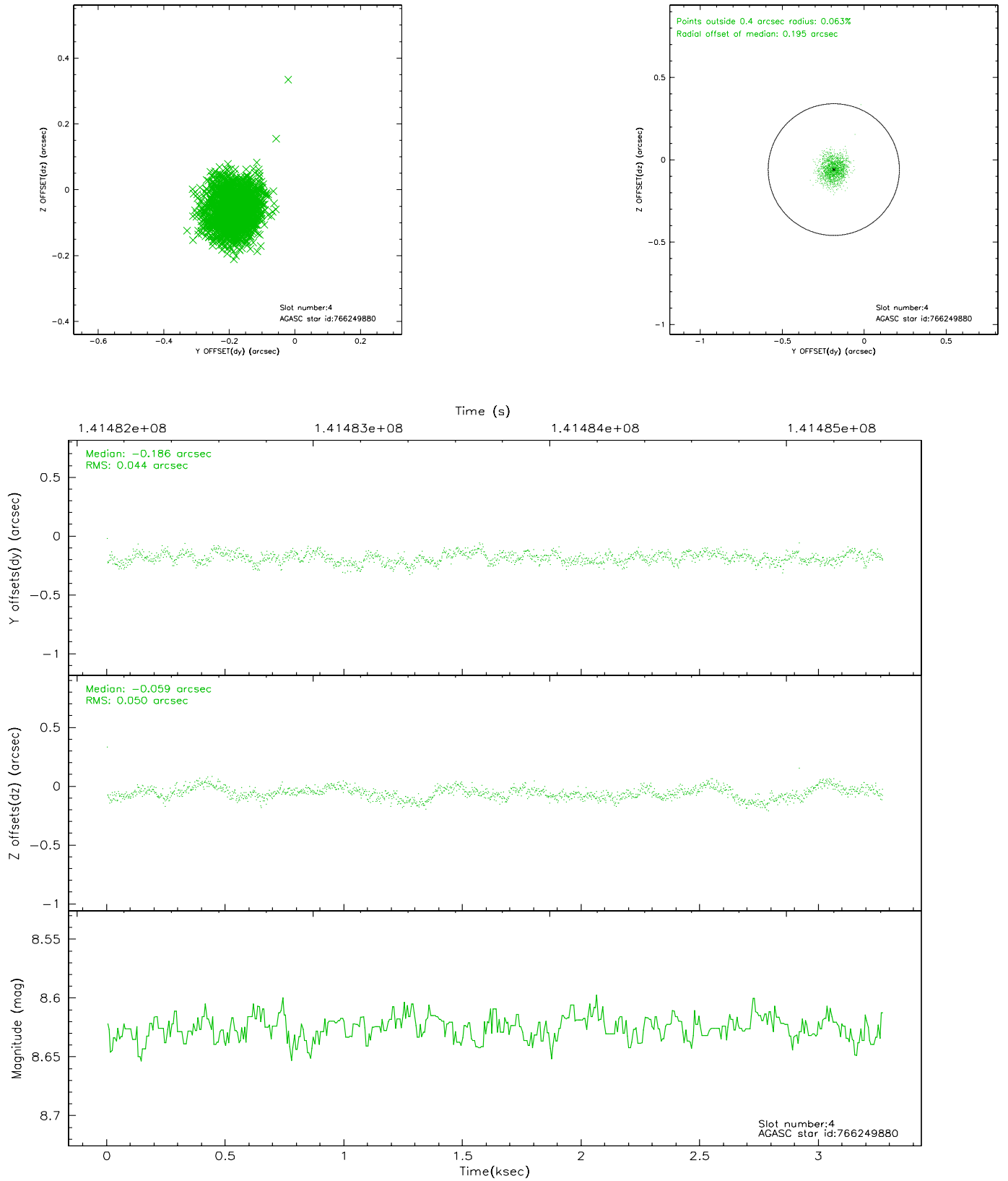


## 2.4 Star Slots

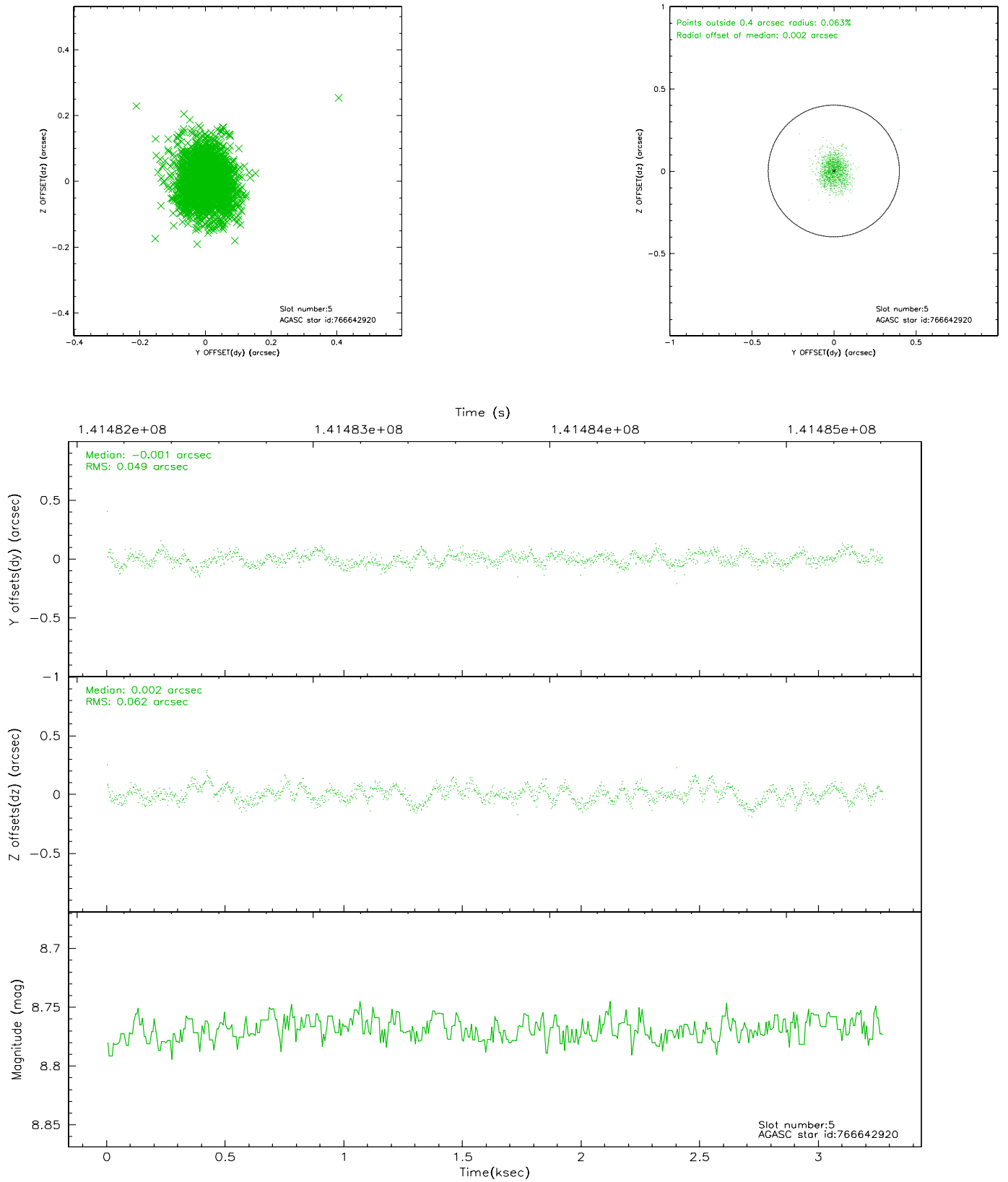
### 2.4.1 Slot 3



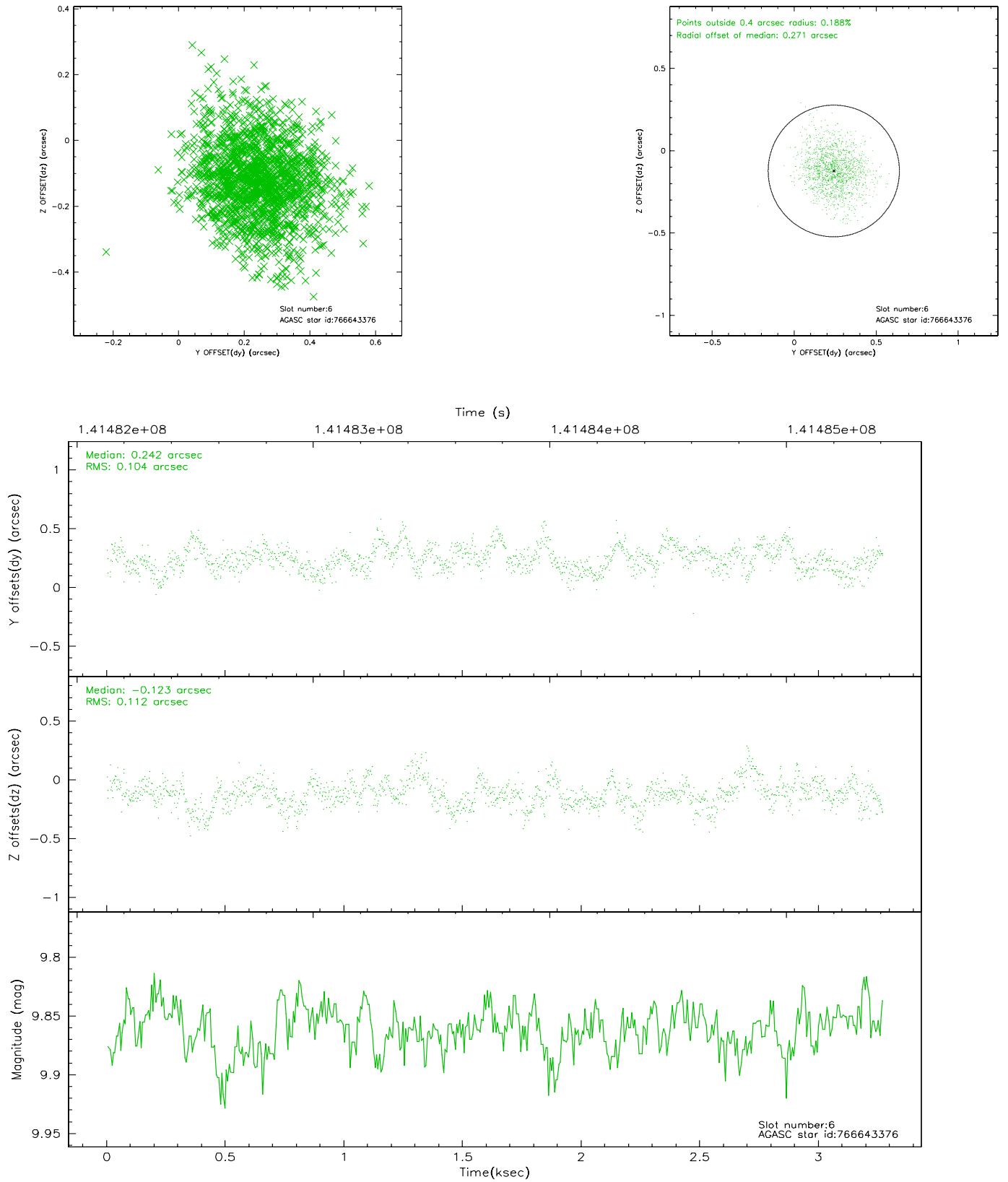
## 2.4.2 Slot 4



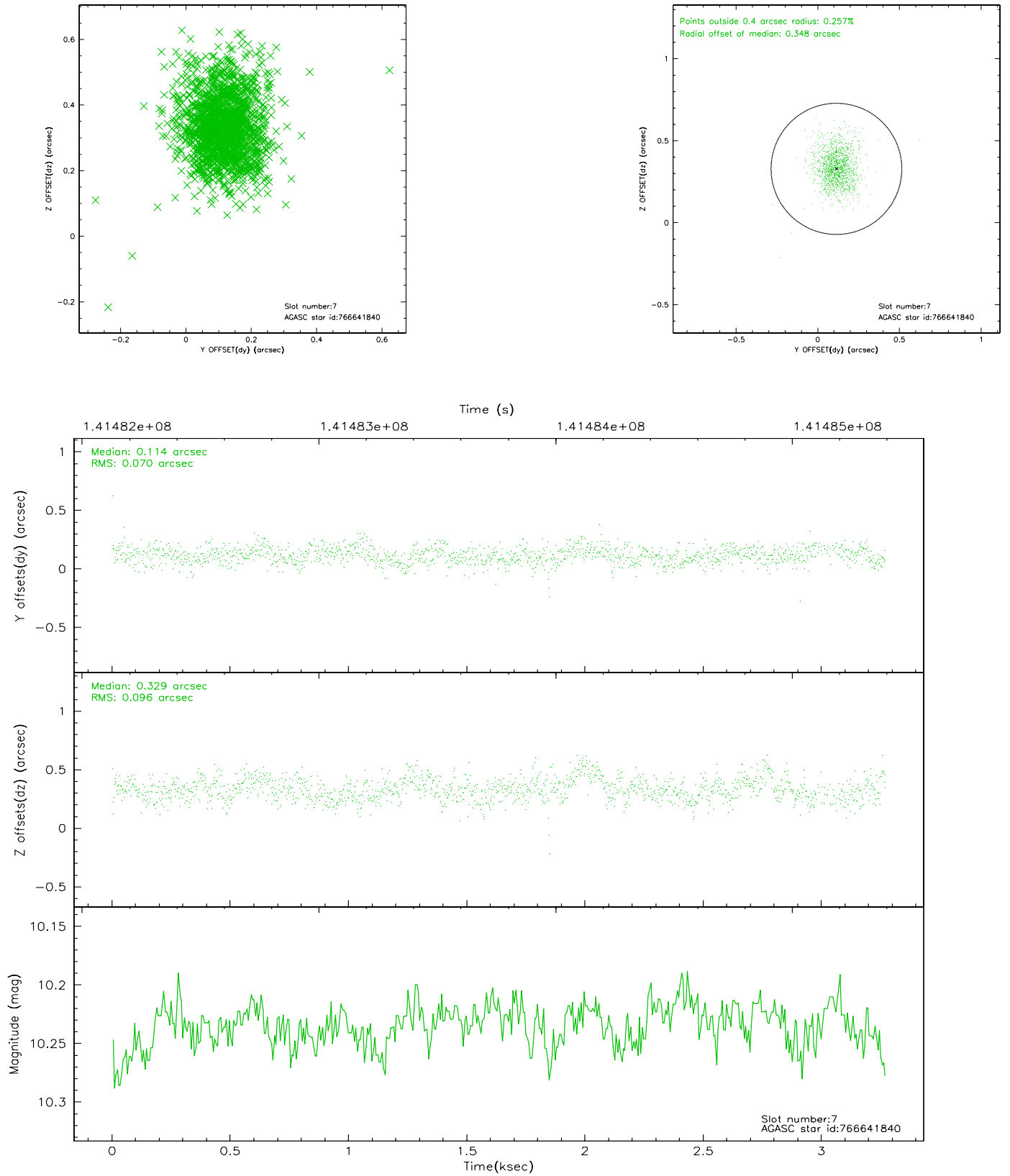
### 2.4.3 Slot 5



## 2.4.4 Slot 6

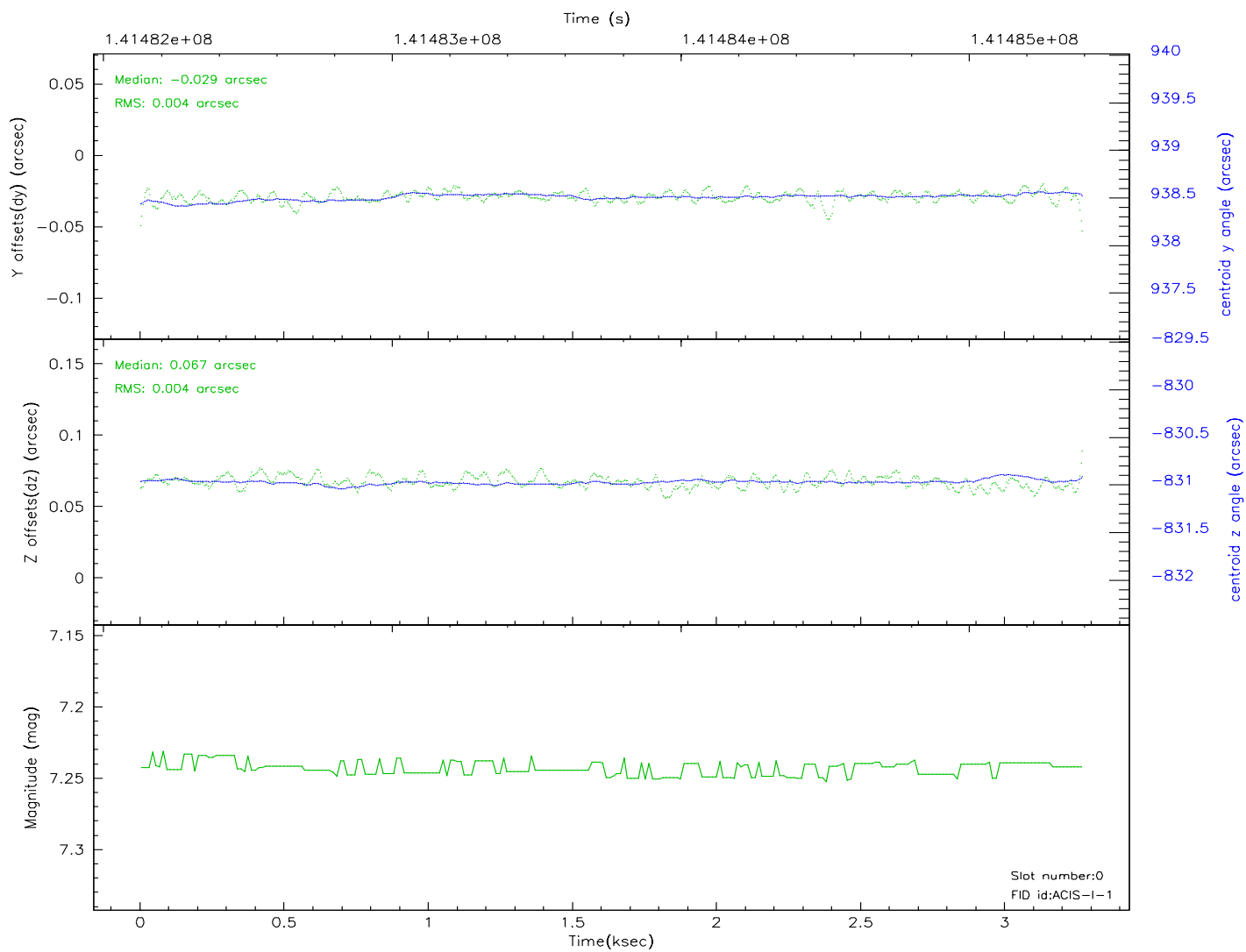
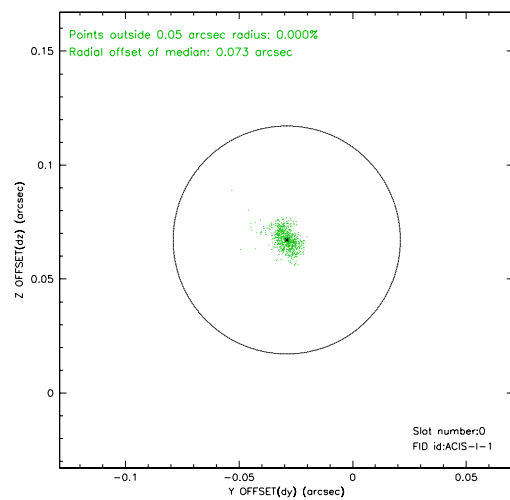
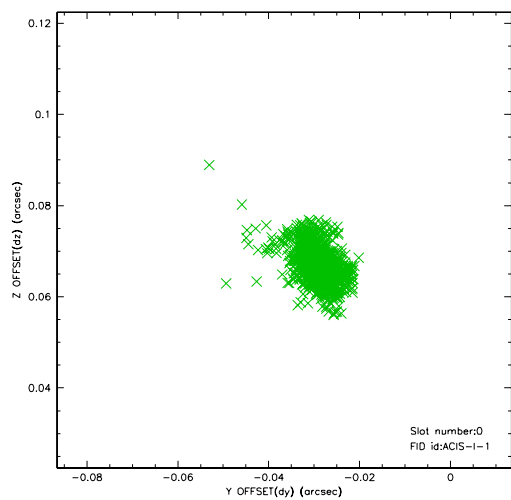


## 2.4.5 Slot 7

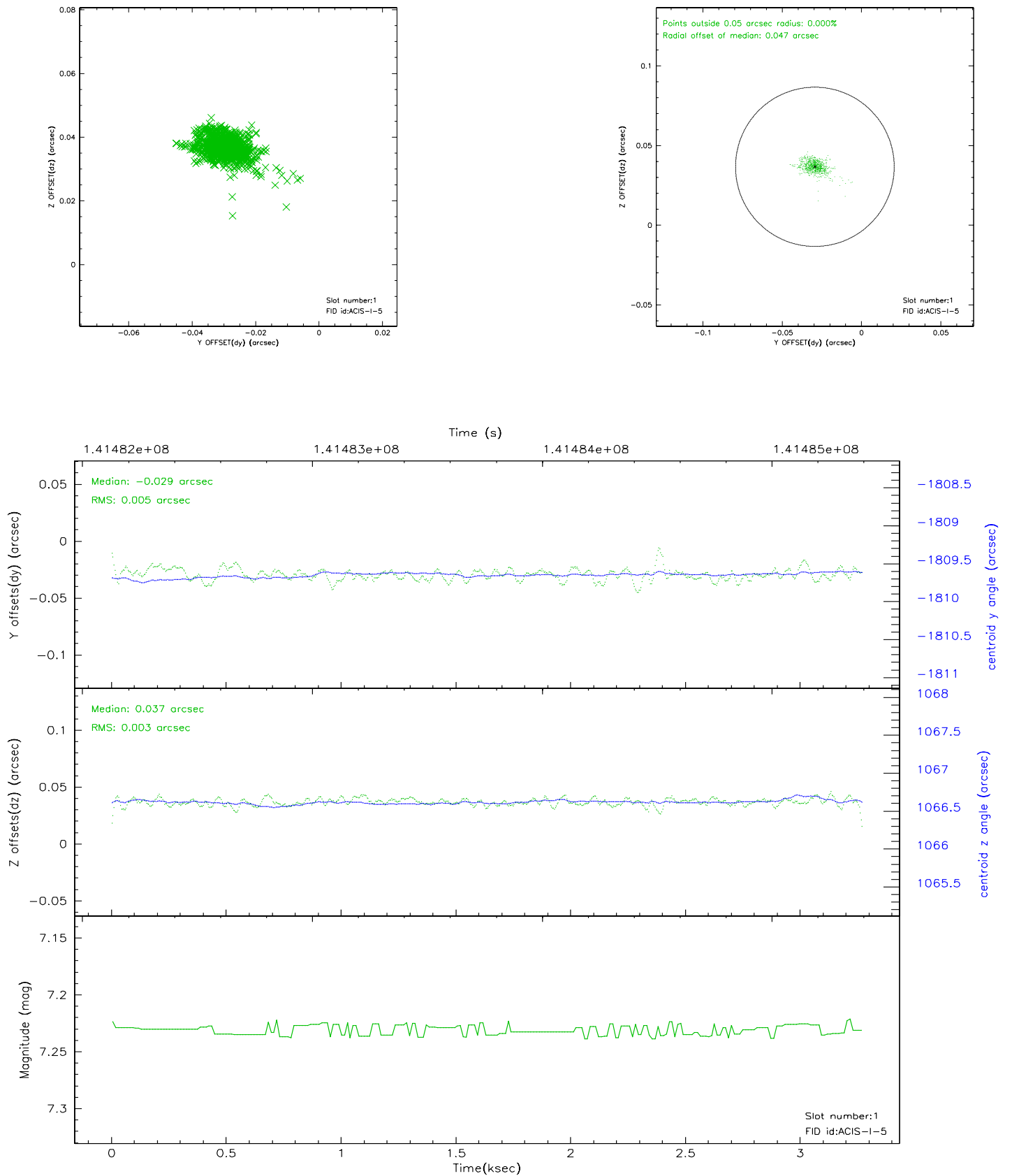


## 2.5 FID Slots

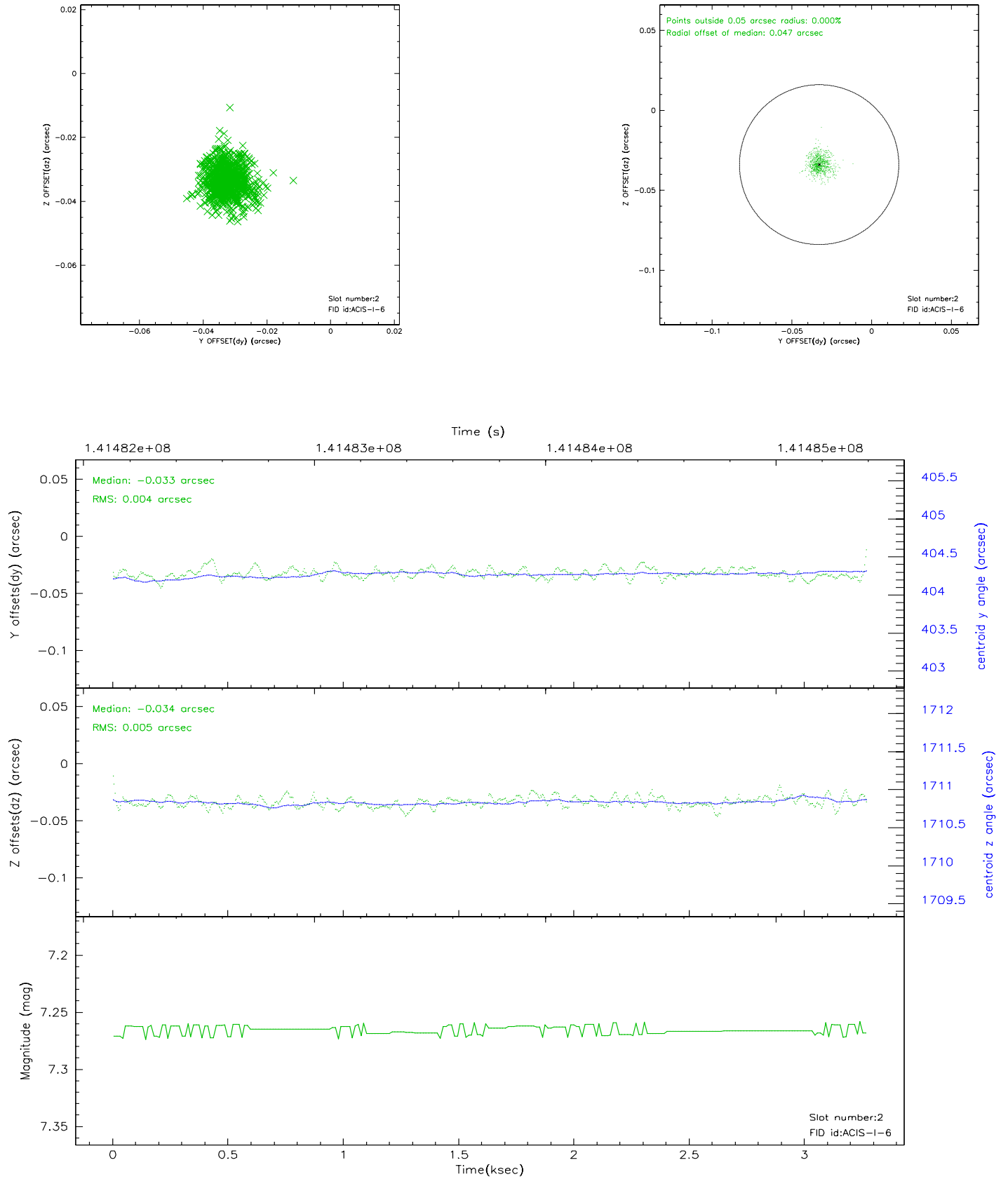
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





### 3 Point Sources

11.90 arcmin



18.63 arcmin



## A Summary

### A.1 Status

|                            |            |
|----------------------------|------------|
| V&V Scientist              | Jen Lauer  |
| V&V Date (YYYY-MM-DD)      | 2006.09.21 |
| V&V Edition                | 1          |
| V&V Disposition and Status | OK         |
| V&V Charge Time            | 2.963      |

### A.2 Comments